

## CLAIMS

1. A method which is comprised of, as a core structure for a unitary treatment of an integrated picture image processing mechanism, the steps of:

forming a frequency structure in a dissociation process that is a reduction mapping of wavelet transform, and

executing wavelet extension mapping in which said frequency structure is recursively used in an extension operation, said frequency structure being preserved.

2. A method which is an upper level mechanism related to the method of claim 1, wherein said method is comprised of the steps of:

combining a picture image processing, which is based on wavelet transform, with a wavelet extension mapping,

executing thereby a unitary processing, and

forming an integration-oriented picture image processing mechanism that has a mechanism which realizes integrated management and control.

3. A method which is an upper level mechanism related to the method of claim 2, wherein said method is comprised of, in constructing database support and management system of picture image database, the steps of:

incorporating an integrated picture image processing mechanism, realizing metafile as a retrieval system and utilizing a picture image attribute, and

managing and controlling picture image database thereby.

4. A method which is a system related to the method of claim 3, wherein said method is comprised of, in constructing dynamic picture image database which can realize web-oriented picture image database, the steps of:

forming a system that satisfies a client's demand of picture image size and picture image quality by, in addition to a processing function of web server, a function of integrated picture image processing mechanism; and

constructing and utilizing server concentrated dynamic picture image database on which a concentrated management is performed.

5. A method which is a system related to the method of claim 3, wherein said method is comprised of, in constructing dynamic picture image database which can realize web-oriented picture image database, the steps of:

forming a system in which a client satisfies himself with a demand of picture image size and picture image quality in a self reference style, said client adding and integrating, as a client's function, a function of integrated picture image processing mechanism in addition to a processing function of web server; and

constructing client distributed dynamic picture image database on which a dispersive management is performed.

6. A medium, which is recorded with a picture image processing program, characterized in that said program, as a core structure of a unitary processing for integrated picture image processing mechanism:

forms a frequency structure in a dissociation process which is a reduction mapping of wavelet transform, and

executes wavelet extension mapping which recursively uses said frequency structure in an extension operation, said frequency structure being preserved; and whereby said program allows a computer to function for wavelet extension mapping.

7. A medium, which is recorded with a picture image processing program based mainly on a wavelet extension mapping, characterized in that said program:

combines a picture image processing based on wavelet transform with wavelet extension mapping,

executes thereby a unitary processing, and

forms an integration-oriented picture image processing mechanism that has a mechanism which realizes integrated management and control;

wherein said program allows a computer to function as an

integration-oriented picture image processing mechanism.

8. A medium, which is recorded with a management and control program, characterized in that said program, in constructing database support and management system of picture image database:

incorporates an integrated picture image processing mechanism,  
realizes a metafile as a retrieval system and utilizes a picture image attribute, and

manages and controls picture image database thereby; and  
wherein said program allows a computer to function to manage and control the picture image database.

9. A medium, which is recorded with a program that drives server concentrated dynamic picture image database, characterized in that said program, in constructing dynamic picture image database which can realize web-oriented picture image database:

forms a system that satisfies a client's demand of picture image size and picture quality by, in addition to a processing function of web server, a function of integrated picture image processing, and

forms server concentrated dynamic picture image database on which a concentrated management is performed; and

wherein said program allows a computer to function as a server concentrated dynamic picture image database.

10. A medium, which is recorded with a program that drives client distributed dynamic picture image database, characterized in that said program, in constructing dynamic picture image database which can realize a web-oriented picture image database:

forms a system in which a client satisfies himself with a demand of picture image size and picture image quality in a self reference style, said client adding and integrating, as a client's function, a function of integrated picture image processing mechanism in addition to a processing function of web server, and

forms client distributed dynamic picture image database on which a

dispersive management is performed; and

wherein said program allows a computer to function as a client distributed dynamic picture image database.